STRUCTURE SEARCH

```
=> d his l30

     (FILE 'HCAPLUS' ENTERED AT 14:21:26 ON 13 JAN 2010)
L30           20 S L26 AND (L28 OR L29)
                 SAV TEMP L30 GAR586HCP/A

     FILE 'STNGUIDE' ENTERED AT 14:24:03 ON 13 JAN 2010

     FILE 'HCAPLUS' ENTERED AT 14:24:36 ON 13 JAN 2010

=> d que stat l30
L5                STR
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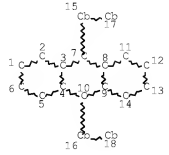


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DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  18

STEREO ATTRIBUTES: NONE
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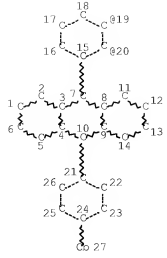
Cb 828

Page 1-A



Page 2-A
VPA 28-19/20 U
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DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M6 C AT 27
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GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE
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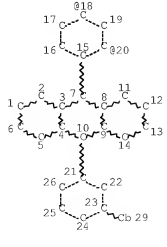
Cb @28

Page 1-A



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VPA 28-18/20 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 28
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DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M6 C AT 28
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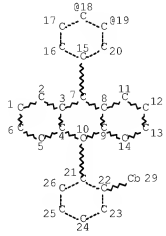
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE
L17 131 SEA FILE=REGISTRY SUB=L7 SSS FUL L15
L20 STR

Cb @28

Page 1-A



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VPA 28-18/19 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
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DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE
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L24 169 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L12 OR L17 OR L22
L26 65 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L24
L28 QUE SPE=ON ABB=ON PLU=ON PY=<2004 NOT P/DT
L29 QUE SPE=ON ABB=ON PLU=ON (PY=<2004 OR PRY=<2004 OR AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
L30 20 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L26 AND (L28 OR L29)

STRUCTURE SEARCH RESULTS

=> d l30 1-20 ibib ed abs hitstr hitind

L30 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:656144 HCAPLUS Full-text
DOCUMENT NUMBER: 145:115194
TITLE: Luminescent ink composition for organic electroluminescent device
INVENTOR(S): Inoue, Tetsuya; Kondo, Hirofumi; Ikeda, Hidetsugu
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006070712	A1	20060706	WO 2005-JP23712	2005 1226

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US 20080001123	A1	20080103	US 2007-813062	2007 0628

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PRIORITY APPLN. INFO.:			JP 2004-380642	A 2004 1228

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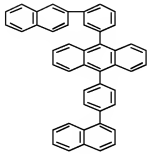
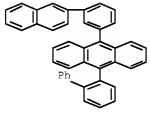
			WO 2005-JP23712	W 2005 1226

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 145:115194
ED Entered STN: 07 Jul 2006
AB Disclosed is a luminescent ink composition for organic EL devices which contains a low-mol. weight material of high solubility and can be easily formed into a thin film by a wet process. This ink composition enables to form an organic thin film using a luminescent low-mol. weight material with high productivity by a wet process. Specifically disclosed is a luminescent ink composition for organic electroluminescent devices which is composed of the following components (A), (B) and (C): (A) an anthracene derivative, (B) a fused aromatic ring compound having a substituted arylamino group and/or a styryl derivative having a substituted arylamino group (C) an organic solvent.
IT 853945-29-6 853945-36-5
RL: DEV (Device component use); USES (Uses)
(luminescent ink compns. for organic electroluminescent devices)

RN 853945-29-6 HCAPLUS
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)



RN 853945-36-5 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(2-naphthalenyl)phenyl]- (CA INDEX NAME)



CC 76-3 (Electric Phenomena)
Section cross-reference(s): 74
IT 2085-33-8, Tris(8-quinolinolato)aluminum 55035-42-2
312497-12-4 663954-33-4 667940-34-3 667940-36-5
693289-37-1 853945-27-4 853945-29-6
853945-36-5 855828-33-0 896457-49-1
RL: DEV (Device component use); USES (Uses)
(luminescent ink comprns. for organic electroluminescent devices)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:383875 HCAPLUS Full-text
DOCUMENT NUMBER: 144:422242
TITLE: Selection method of materials used in electroluminescent layer of organic LED and production method of organic LED
INVENTOR(S): Fujita, Tetsushi; Inoue, Tetsuji
PATENT ASSIGNEE(S): Tdk Corporation, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006114844	A	20060427	JP 2004-303319	2004 1018
			<--	
PRIORITY APPLN. INFO.:			JP 2004-303319	2004 1018
			<--	

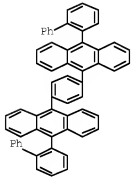
ED Entered STN: 27 Apr 2006

AB The invention relates to a selection method of materials used for an organic LED that comprises an electroluminescent layer of a host-guest structure, wherein the selection of the guest for a specific host is based on the correlations between the electroluminescent quantum efficiency and the mol. weight ratio of the guest mol. to the specific host mol., that is obtained among guest mols. having an identical main skeleton.

IT 828268-34-4
RL: DEV (Device component use); USES (Uses)
(host; selection method of materials used in electroluminescent layer of organic LED)

RN 828268-34-4 HCAPLUS

CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)



CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

IT 23102-67-2 312497-16-8 828268-34-4 850064-02-7
RL: DEV (Device component use); USES (Uses)
(host; selection method of materials used in electroluminescent layer of organic LED)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L30 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1292785 HCAPLUS Full-text

DOCUMENT NUMBER: 144:29552

TITLE: Electroluminescent devices employing mixtures of electroluminescent and nonelectroluminescent components

INVENTOR(S): Brown, Christopher T.; Hatwar, Tukaram K.; Ricks, Michele L.

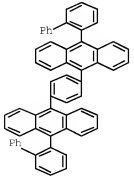
PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part

of U.S. Ser. No. 658,010, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050271899	A1	20051208	US 2005-159691	2005 0623
			<--	
US 20040126617	A1	20040701	US 2003-658010	2003 0909
			<--	
PRIORITY APPLN. INFO.:			US 2002-334324 B2	2002 1231
			<--	
			US 2003-658010 B2	2003 0909
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 144:29552
ED Entered STN: 09 Dec 2005
AB Organic light-emitting devices comprising a light-emitting layer containing an electroluminescent component having a first bandgap and ≥2 nonelectroluminescent components having second and further bandgaps, resp. are described in which the second bandgap is equal to or greater than the first bandgap but is ≤2.7 eV; the further bandgaps are greater than the first and second bandgaps; the nonelectroluminescent component with the second bandgap is present in an amount of ≥34 weight % of the total components in the light-emitting layer; the nonelectroluminescent components with further bandgaps are present in a combined amount of 0.1-65.9 weight % of the total components in the light-emitting layer; and the electroluminescent component is present in amount of 0.1-5 weight % of the total components in the light-emitting layer.
IT 828268-34-4
RL: DEV (Device component use); USES (Uses)
(organic electroluminescent devices employing mixts. of electroluminescent and nonelectroluminescent components)
RN 828268-34-4 HCAPLUS
CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)

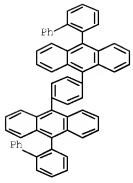


IC ICM H05B033-14
INCL 428690000; 428917000; 313504000; 313506000; 257088000; 257089000; 427066000
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 76
IT 281-23-2D, Adamantane, aryl derivs. 517-51-1 2085-33-8, Tris(8-hydroxyquinolinato)aluminum 51325-95-2 85213-03-2
123847-85-8 159788-00-8 175606-05-0 192198-85-9
200052-70-6 200052-71-7 200052-72-8 213749-94-1
219318-86-2 219319-06-9 274905-73-6 368884-57-5
374592-94-6 478799-46-1 478799-67-6 504408-22-4
616235-15-5 714215-47-1 828268-34-4 865435-17-2
865435-18-3 865435-19-4 865435-20-7 865435-21-8
865435-22-9 865435-23-0 865435-24-1 865435-25-2
865435-26-3 865435-27-4 865435-28-5 865435-29-6
865435-30-9 865435-31-0 865435-32-1 865435-33-2
865435-34-3 865435-35-4 865435-36-5 865435-38-7
865435-39-8 868839-39-8 870558-11-5 870558-13-7
870558-18-2 870558-21-7
RL: DEV (Device component use); USES (Uses)
(organic electroluminescent devices employing mixts. of electroluminescent and nonelectroluminescent components)

L30 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:1198275 HCAPLUS Full-text
DOCUMENT NUMBER: 143:449139
TITLE: Organic electroluminescent device
INVENTOR(S): Ara, Kensuke; Inoue, Tetsushi
PATENT ASSIGNEE(S): Tdk Corporation, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005317450	A	20051110	JP 2004-136276	2004 0430
			<--	
PRIORITY APPLN. INFO.:			JP 2004-136276	2004 0430
			<--	

OTHER SOURCE(S): MARPAT 143:449139
ED Entered STN: 11 Nov 2005
AB The invention relates to an organic electroluminescent device comprising an organic electroluminescent layer(s) , including an electroluminescent layer, and inorg. layers sandwiched between a pair of electrodes, wherein the compound represented by L-(A)n [L = 2-4 valent linking group; A = π-conjugated cyclic group; and n = 2-4 integer].
IT 828268-34-4
RL: DEV (Device component use); USES (Uses)
(organic electroluminescent device)
RN 828268-34-4 HCAPLUS
CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)



IC ICM H05B033-14
ICS C09K011-06; H05B033-22
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 74
IT 265989-62-6, Germanium indium oxide 828268-34-4
RL: DEV (Device component use); USES (Uses)
(organic electroluminescent device)

L30 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:1129854 HCAPLUS Full-text
DOCUMENT NUMBER: 143:396107
TITLE: Organic electroluminescent device and its production method
INVENTOR(S): Ara, Kensuke; Inoue, Tetsuji; Tanaka, Michi
PATENT ASSIGNEE(S): Tdk Corporation, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005293961	A	20051020	JP 2004-105639	2004 0331
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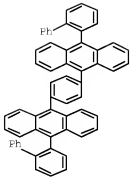
PRIORITY APPLN. INFO.:			JP 2004-105639	2004 0331
			<--	

ED Entered STN: 21 Oct 2005
AB The invention relates to an organic electroluminescent device that comprises an inorg. hole injection layer disposed between a hole injection electrode and a light-emitting layer for enhancing the electroluminescent efficiency and an operation life time, wherein the inorg. hole injection layer is prepared in the atmospheric containing N2 1-70 and O2 ≥ 10 volume % using a metal oxide and/or oxynitride target for improving the high temperature durability of the device.
IT 828268-34-4
RL: DEV (Device component use); USES (Uses)
(organic electroluminescent device having inorg. hole injection layer)
RN 828268-34-4 HCAPLUS
CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)

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IC   ICM  H05B033-10
     ICS  H05B033-14; H05B033-22
CC   73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
     Properties)
IT   7789-24-4, Lithium fluoride, uses   50926-11-9, ITO   216066-60-3
     312497-12-4   639506-62-0   828268-34-4
     RL: DEV (Device component use); USES (Uses)
        (organic electroluminescent device having inorg. hole injection
        layer)
OS.CITING REF COUNT:      1      THERE ARE 1 CAPLUS RECORDS THAT CITE
                                 THIS RECORD (1 CITINGS)

L30  ANSWER 6 OF 20  HCAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:         2005:1099274  HCAPLUS  Full-text
DOCUMENT NUMBER:          143:396424
TITLE:                    Organic electroluminescent display devices
INVENTOR(S):              Ebisawa, Akira; Kanbe, Emiko
PATENT ASSIGNEE(S):       TDK Corporation, Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 27 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
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     JP 2005285466         A     20051013    JP 2004-96010
                                                                     2004
                                                                     0329
                                                 <--
     JP 4317476            B2    20090819
PRIORITY APPLN. INFO.:                       JP 2004-96010
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                                                                     0329
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ED   Entered STN:  13 Oct 2005
GI
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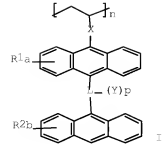
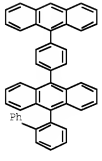


I

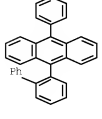
AB The title device has an organic electroluminescent layer between a pair of electrodes, wherein the organic electroluminescent layer contains compound I (X = 2-valent organic ; p = 0, integer ≥1; L = C1-4 2-valent aliphatic hydrocarbon, C6-13 (p+2)-valent aroms., imino; Y, R1-2 = mono-valent substituent; a = integer 0-8; b = integer 0-9; n= integer≥1). The device shows long service-life.

IT 866610-00-6P 866610-02-8P
866610-04-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(organic electroluminescent display devices)

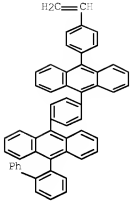
RN 866610-00-6 HCAPLUS
CN Anthracene, 9-[4-(9-anthracenyl)phenyl]-10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)



RN 866610-02-8 HCAPLUS
CN Anthracene, 9-[4-(10-[1,1'-biphenyl]-2-yl-9-anthracenyl)phenyl]-10-bromo- (CA INDEX NAME)



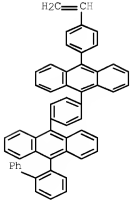
RN 866610-04-0 HCAPLUS
CN Anthracene, 9-[4-(10-[1,1'-biphenyl]-2-yl-9-anthracenyl)phenyl]-10-(4-ethenylphenyl)- (CA INDEX NAME)



IT 866610-06-2P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organic electroluminescent display devices)
RN 866610-06-2 HCAPLUS
CN Anthracene, 9-[4-(10-[1,1'-biphenyl]-2-yl-9-anthracenyl)phenyl]-10-(4-ethenylphenyl)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 866610-04-0
CMF C54 H36



IC ICM H05B033-14
ICS C08F012-08; C09K011-06
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35

IT 23674-20-6P 24672-71-7P 334658-75-2P 400607-16-1P
400607-48-9P 850064-02-7P 866609-81-6P 866609-82-7P
866609-86-1P 866609-90-7P 866609-92-9P 866609-97-4P
866610-00-6P 866610-02-8P
866610-04-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(organic electroluminescent display devices)
IT 866609-94-1P 866610-06-2P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organic electroluminescent display devices)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L30 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:962579 HCAPLUS Full-text
DOCUMENT NUMBER: 143:256816
TITLE: White organic electroluminescence device
INVENTOR(S): Tokairin, Hiroshi; Fukuoka, Kenichi; Kubota, Mineyuki; Funahashi, Masakazu
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005081587	A1	20050901	WO 2005-JP2442	2005 0217
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1718124	A1	20061102	EP 2005-719244	2005 0217
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1879454	A	20061213	CN 2005-80001270	2005 0217
			<--	
US 20070063638	A1	20070322	US 2006-573661	2006 0328
			<--	
KR 2006115372	A	20061108	KR 2006-708168	2006 0427
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PRIORITY APPLN. INFO.: JP 2004-42694 A 2004 0219

<-- WO 2005-JP2442 W 2005 0217

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

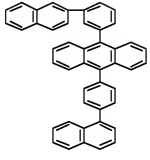
ED Entered STN: 02 Sep 2005

AB The invention refers to a white organic electroluminescence device comprising a neg. electrode and a pos. electrode and, interposed there between, one or more organic thin film layers including at least a light emitting layer, wherein the light emitting layer is constituted of a laminate of blue color light emitting layer and yellow-to-red color light emitting layer and contains an asym. condensed-ring-containing compound This white color organic electroluminescence device realizes reduced chromaticity changes and excels in luminous efficiency and thermal stability, ensuring strikingly prolonged service life.

IT 853945-29-6 853945-34-3
RL: DEV (Device component use); USES (Uses)
(white color organic electroluminescence device)

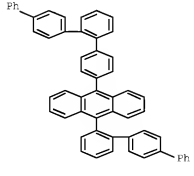
RN 853945-29-6 HCAPLUS

CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)



RN 853945-34-3 HCAPLUS

CN Anthracene, 9-[1,1':2',1'':4'',1'''-quaterphenyl]-4-yl-10-[1,1':4',1''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)



IC ICM H05B033-14
ICS C09K011-06

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CC    73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
      Properties)
IT    154853-83-5   331965-31-2   667940-34-3   667940-36-5
      764657-26-3   853945-27-4   853945-29-6
      853945-34-3   855828-33-0   863292-27-7   863292-28-8
      863292-29-9
      RL: DEV (Device component use); USES (Uses)
         (white color organic electroluminescence device)
OS.CITING REF COUNT:        3     THERE ARE 3 CAPLUS RECORDS THAT CITE
                                  THIS RECORD (7 CITINGS)
REFERENCE COUNT:           17     THERE ARE 17 CITED REFERENCES AVAILABLE
                                  FOR THIS RECORD. ALL CITATIONS AVAILABLE
                                  IN THE RE FORMAT

L30  ANSWER 8 OF 20  HCAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:           2005:523395  HCAPLUS  Full-text
DOCUMENT NUMBER:            143:68072
TITLE:                      Asymmetric monoanthracene derivative, material
                            for organic electroluminescent device and
                            organic electroluminescent device utilizing
                            the same
INVENTOR(S):                Kubota, Mineyuki; Funahashi, Masakazu
PATENT ASSIGNEE(S):         Idemitsu Kosan Co., Ltd., Japan
SOURCE:                     PCT Int. Appl., 100 pp.
                            CODEN: PIXXD2
DOCUMENT TYPE:              Patent
LANGUAGE:                   Japanese
FAMILY ACC. NUM. COUNT:     1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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     WO 2005054162        A1    20050616    WO 2004-JP18111
                                                                   2004
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         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
             CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,
             ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
             KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
             MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL,
             PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
             TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,
             CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,
             LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG,
             CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1707550           A1    20061004    EP 2004-799959
                                                                   2004
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         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
             MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
     CN 1871192           A     20061129    CN 2004-80031556
                                                                   2004
                                                                   1130
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     CN 100471827         C     20090325
     US 20070055085       A1    20070308    US 2006-572586
                                                                   2006
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     KR 2006108642        A     20061018    KR 2006-708388
                                                                   2006
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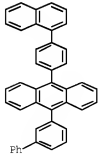
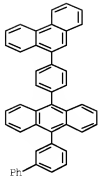
IN 2006CN01453	A	20070706	IN 2006-CN1453	2006 0428
			<--	
IN 2009CN01179	A	20090529	IN 2009-CN1179	2009 0302
			<--	
PRIORITY APPLN. INFO.:			JP 2003-401038	A 2003 1201
			<--	
			WO 2004-JP18111	W 2004 1130
			<--	
			IN 2006-CN1453	A3 2006 0428

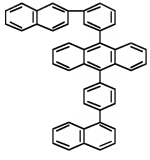
OTHER SOURCE(S): MARPAT 143:68072
ED Entered STN: 17 Jun 2005
AB An asym. monoanthracene derivative of specified structure; and a material for organic EL device comprising the asym. monoanthracene derivative There is further provided an organic EL device comprising neg. and pos. electrodes and, interposed there between, an organic thin film layer consisting of one or two or more layers including at least a light emitting layer, wherein at least one layer of the organic thin film layer contains the asym. monoanthracene derivative alone or as a component of mixture There are provided an organic electroluminescent (EL) device of high luminous efficiency and prolonged durability and, for realization thereof, an asym. monoanthracene derivative and material for organic EL device.
IT 853945-46-7 853945-47-8
RL: DEV (Device component use); USES (Uses)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)
RN 853945-46-7 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-3-yl-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)



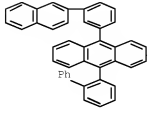
RN 853945-47-8 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-3-yl-10-[4-(9-phenanthrenyl)phenyl]- (CA INDEX NAME)



IT 853945-29-6P 853945-36-5P
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)
RN 853945-29-6 HCAPLUS
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)



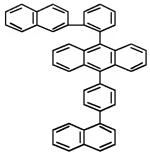
RN 853945-36-5 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(2-naphthalenyl)phenyl]- (CA INDEX NAME)



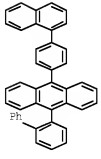
IT 853945-30-9P 853945-31-0P
853945-32-1P 853945-33-2P
853945-34-3P 853945-35-4P

853945-37-6P 853945-42-3P
853945-45-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)

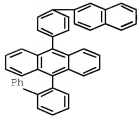
RN 853945-30-9 HCAPLUS
CN Anthracene, 9-[2-(2-naphthalenyl)phenyl]-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)



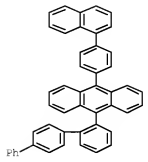
RN 853945-31-0 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)



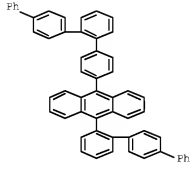
RN 853945-32-1 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(2-naphthalenyl)phenyl]- (CA INDEX NAME)



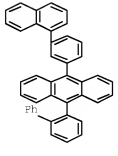
RN 853945-33-2 HCAPLUS
CN Anthracene, 9-[4-(1-naphthalenyl)phenyl]-10-[1,1':4',1''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)



RN 853945-34-3 HCAPLUS
CN Anthracene, 9-[1,1':2',1'':4'',1'''-quaterphenyl]-4-yl-10-[1,1':4',1''-terphenyl]-2-yl- (9CI) (CA INDEX NAME)

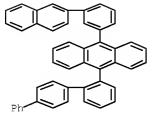


RN 853945-35-4 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[3-(1-naphthalenyl)phenyl]- (CA INDEX NAME)

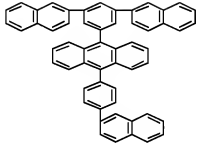


RN 853945-37-6 HCAPLUS
CN Anthracene, 9-[3-(2-naphthalenyl)phenyl]-10-[1,1':4',1''-

terphenyl]-2-yl- (9CI) (CA INDEX NAME)



RN 853945-42-3 HCAPLUS
CN Anthracene, 9-(3,5-di-2-naphthalenylphenyl)-10-[4-(2-naphthalenyl)phenyl]- (CA INDEX NAME)



RN 853945-45-6 HCAPLUS
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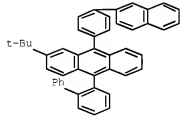

IC ICM C07C015-27
ICS C09K011-06; H05B033-14
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 25
IT 2085-33-8, Alq3 154853-83-5 164724-35-0 209980-53-0 669016-16-4 853945-46-7 853945-47-8
RL: DEV (Device component use); USES (Uses)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)
IT 853945-27-4P 853945-29-6P 853945-36-5P
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic

preparation); PREP (Preparation); USES (Uses)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)
IT 853945-28-5P 853945-30-9P 853945-31-0P
853945-32-1P 853945-33-2P
853945-34-3P 853945-35-4P
853945-37-6P 853945-38-7P 853945-39-8P 853945-40-1P
853945-41-2P 853945-42-3P 853945-43-4P
853945-44-5P 853945-45-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(asym. monoanthracene derivative, material for organic electroluminescent device and organic electroluminescent device utilizing same)
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:369061 HCAPLUS Full-text
DOCUMENT NUMBER: 142:419750
TITLE: OLED device with asymmetric monoanthracene derivative host
INVENTOR(S): Cosimbescu, Lelia; Vreeland, William B.; Conley, Scott R.; Mount, Jeri L.
PATENT ASSIGNEE(S): Eastman Kodak Company, USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050089715	A1	20050428	US 2003-692562	2003 1024
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US 7056601	B2	20060606		
WO 2005042667	A1	20050512	WO 2004-US33559	2004 1012
			<--	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1680480	A1	20060719	EP 2004-794812	2004 1012
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R: DE, FR, GB				
CN 1871324	A	20061129	CN 2004-80031299	2004

1012

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JP 2007510294 T 20070419 JP 2006-536666

2004

1012

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KR 2006096055 A 20060905 KR 2006-707640

2006

0420

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PRIORITY APPLN. INFO.: US 2003-692562 A

2003

1024

<--

WO 2004-US33559 W

2004

1012

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OTHER SOURCE(S): MARPAT 142:419750

ED Entered STN: 29 Apr 2005

AB Organic electroluminescent devices (OLED) are described which comprise an anode and a cathode between which is located a light-emitting layer containing a light-emitting dopant and a host comprising a monoanthracene derivative with different substituents at 9th (R9) and 10th (R10) position; R9 is a biphenyl group containing no fused rings with aliphatic carbon ring members; R10 is an ortho-substituted- or meta-monosubstituted Ph group where the substituent is selected from fluorine, hydroxy, cyano, alkyl, alkoxy, aryloxy, aryl, carboxy, trimethylsilyl, and heterocyclic oxy groups; provided that R9 and R10 are free of amines and sulfur compds.

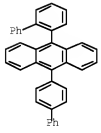
IT 850539-22-9P

RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(host; OLED device employing light-emitting dopant in asym. monoanthracene derivative host)

RN 850539-22-9 HCAPLUS

CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[1,1'-biphenyl]-4-yl- (9CI) (CA INDEX NAME)



IC ICM H05B033-14

INCL 428690000; X42-891.7; X31-350.4; X31-350.6

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

Section cross-reference(s): 25, 74, 76

IT 850539-22-9P

RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(host; OLED device employing light-emitting dopant in asym. monoanthracene derivative host)

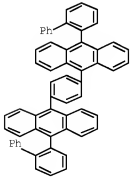
OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:346259 HCAPLUS Full-text
DOCUMENT NUMBER: 142:400310
TITLE: Organic electroluminescent device and its production method
INVENTOR(S): Ara, Kensuke; Inoue, Tetsuji
PATENT ASSIGNEE(S): TDK Corporation, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005108692	A	20050421	JP 2003-341974	2003 0930
			<--	
PRIORITY APPLN. INFO.:			JP 2003-341974	2003 0930
			<--	

ED Entered STN: 22 Apr 2005
AB The invention relates to an organic electroluminescent device comprising a substrate, a hole injection electrode, an electron injection electrode, a electroluminescent layer, and an inorg. hole injection layer, wherein the hole injection layer mainly contains the oxide represented by Si1-aGeaOb [a = 0-1, and b = 1.7-2.4] and contains ≥1 oxide(s) selected form In, Zn, Ru and V oxides as a minor component. The hole injection layer is formed in an oxidation gas atmospheric at a specific substrate temperature
IT 828268-34-4
RL: DEV (Device component use); USES (Uses)
(host; organic electroluminescent device with inorg. oxide hole injection layer)
RN 828268-34-4 HCAPLUS
CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)



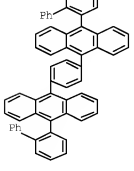
IC ICM H05B033-22
ICS H05B033-10; H05B033-14
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
IT 172285-83-5 312497-12-4 639506-60-8 828268-34-4
845712-42-7 850064-02-7 850064-06-1

RL: DEV (Device component use); USES (Uses)
(host; organic electroluminescent device with inorg. oxide hole injection layer)
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L30 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:57709 HCAPLUS Full-text
DOCUMENT NUMBER: 142:165279
TITLE: Method for selection of organic electroluminescent materials for manufacture of organic electroluminescent devices with long service life
INVENTOR(S): Ogawa, Hiromitsu; Inoue, Tetsuji
PATENT ASSIGNEE(S): TDK Corporation, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

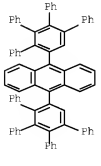
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005019327	A	20050120	JP 2003-185646	20030627
PRIORITY APPLN. INFO.:			JP 2003-185646	20030627

ED Entered STN: 21 Jan 2005
AB The process consists of determination of host materials and dopant materials for emitter layers of organic electroluminescent (EL) devices based on lifetime of fluorescence of ≥2 samples containing the host materials and/or dopant materials.
IT 828268-34-4
RL: ANT (Analyte); DEV (Device component use); ANST (Analytical study); USES (Uses)
(host; method for selection of organic electroluminescent materials for manufacture of organic electroluminescent devices with long service life)
RN 828268-34-4 HCAPLUS
CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (CA INDEX NAME)



IC ICM H05B033-10
ICS H05B033-14
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
IT 186412-15-7 474266-91-6 828268-34-4
RL: ANT (Analyte); DEV (Device component use); ANST (Analytical study); USES (Uses)
(host; method for selection of organic electroluminescent materials for manufacture of organic electroluminescent devices with long service life)

L30 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:36159 HCAPLUS Full-text
DOCUMENT NUMBER: 143:153133
TITLE: Synthesis and electroluminescent properties of fluorene- and anthracene-derivatives containing novel tetraphenylbenzene moiety
AUTHOR(S): Kay, Kwang-Yol; Kim, Jung Hoon; Cho, Hyun Nam; Park, Jong-Wook
CORPORATE SOURCE: Department of Molecular Science and Technology, Ajou University, Suwon, S. Korea
SOURCE: Molecular Crystals and Liquid Crystals (2004), 424, 167-172
CODEN: MCLCD8; ISSN: 1542-1406
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:153133
ED Entered STN: 14 Jan 2005
AB 2,7-Bis[(2,3,4,5-tetraphenyl)phenyl]-9,9-diethylfluorene (BTPDF) and 2,7-bis[(2,3,4,5-tetraphenyl)phenyl]-9,10-anthracene (BTPA), which consist of a diethylfluorene and an anthracene with two tetraphenylbenzene moieties, were synthesized by Diels-Alder reaction and characterized to investigate electroluminescent (EL) behavior. BTPDF and BTPA showed violet and blue photoluminescence spectra at 400 nm and 456 nm. The device of m-MTDATA (600 Å)/NPB (150 Å)/BTPDF or BTPA (300 Å)/Alq3 (300 Å)/LiF (10 Å)/Al (2000 Å) showed turn-on voltage of 9 V and 13 V and blue and green EL spectrum at 466 nm and 504 nm, resp.
IT 103511-51-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and photoluminescence of bis(tetraphenylphenyl)anthracene and -diethylfluorene via Diels-Alder addition of diethynylanthracene or -diethylfluorene with tetraphenylcyclopentadieneone and their properties in electrophotoluminescent device)
RN 103511-51-9 HCAPLUS
CN Anthracene, 9,10-bis(5,6-diphenyl[1,1':2',1''-terphenyl]-3'-yl)- (9CI) (CA INDEX NAME)

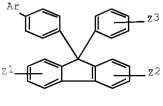


CC 25-27 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 73, 76
IT 103511-51-9P 860014-88-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and photoluminescence of bis(tetraphenylphenyl)anthracene and -diethylfluorene via Diels-Alder addition of diethynylanthracene or -diethylfluorene with tetraphenylcyclopentadieneone and their properties in electrophotoluminescent device)
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:723685 HCAPLUS Full-text
DOCUMENT NUMBER: 139:252299
TITLE: Diphenylfluorene derivatives and organic electroluminescence devices using them with high luminescence efficiency
INVENTOR(S): Ishida, Tsutomu; Shimamura, Takehiko; Tanabe, Yoshimitsu; Totani, Yoshiyuki; Nakatsuka, Masakatsu
PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003261472	A	20030916	JP 2002-62101	2002 0307
			<--	
PRIORITY APPLN. INFO.:			JP 2002-62101	2002 0307
			<--	

OTHER SOURCE(S): MARPAT 139:252299
ED Entered STN: 16 Sep 2003
GI

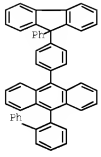


I

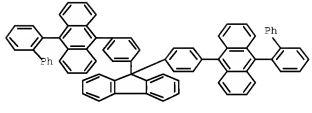
AB The electroluminescence devices contain the diphenylfluorene derivs. I (Ar = anthryl; Z1-3 = H, halo, alkyl, alkoxy, aryl, aralkyl) between a pair of electrodes. The electroluminescence devices may further contain luminescent organic metal complexes and triarylamines.
IT 597554-07-9P 597554-18-2P

RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(anthrylphenylphenylfluorene derivs. for organic EL devices with high luminescence efficiency)

RN 597554-07-9 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-2-yl-10-[4-(9-phenyl-9H-fluoren-9-yl)phenyl]- (CA INDEX NAME)



RN 597554-18-2 HCAPLUS
CN Anthracene, 9,9'-(9H-fluoren-9-ylidenedi-4,1-phenylene)bis[10-[1,1'-biphenyl]-2-yl- (9CI) (CA INDEX NAME)



IC ICM C07C013-573
ICS C07C211-54; C07C211-61; C09K011-06; H05B033-14; H05B033-22
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
IT 460347-61-9P 597554-04-6P 597554-05-7P 597554-06-8P
597554-07-9P 597554-08-0P 597554-09-1P 597554-10-4P
597554-11-5P 597554-12-6P 597554-13-7P 597554-14-8P
597554-15-9P 597554-16-0P 597554-17-1P 597554-18-2P
597554-19-3P 597554-20-6P 597554-21-7P 597554-22-8P
597554-23-9P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(anthrylphenylphenylfluorene derivs. for organic EL devices with high luminescence efficiency)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L30 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:58421 HCAPLUS Full-text
DOCUMENT NUMBER: 138:128806
TITLE: Light-emitting device and aromatic compound
INVENTOR(S): Igarashi, Tatsuya; Qiu, Xuepeng
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007658	A2	20030123	WO 2002-JP6998	2002 0710
			<--	
WO 2003007658	A3	20030703		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002317506	A1	20030129	AU 2002-317506	2002 0710
			<--	
EP 1412450	A2	20040428	EP 2002-745913	2002 0710
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CN 1527871	A	20040908	CN 2002-813990	2002 0710
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CN 1302087	C	20070228		
JP 2004535051	T	20041118	JP 2003-513286	2002 0710
			<--	
TW 575540	B	20040211	TW 2002-91115468	2002 0711
			<--	
KR 902524	B1	20090615	KR 2004-700398	2004 0109
			<--	
US 20040232409	A1	20041125	US 2004-483391	2004 0629
			<--	
US 7517592	B2	20090414		
JP 2007306009	A	20071122	JP 2007-142283	2007 0529
			<--	
US 20080152948	A1	20080626	US 2008-34833	2008 0221

			<--	
US 20080233430	A1	20080925	US 2008-34823	2008 0221
			<--	
PRIORITY APPLN. INFO.:			JP 2001-211269	A 2001 0711
			<--	
			JP 2001-329676	A 2001 1026
			<--	
			JP 2003-513286	A3 2002 0710
			<--	
			WO 2002-JP6998	W 2002 0710
			<--	
			US 2004-483391	A3 2004 0629
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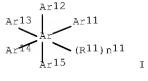
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 138:128806
ED Entered STN: 24 Jan 2003
GI



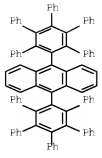
I

AB Light-emitting devices comprising a pair of electrodes and a light-emitting layer or a plurality of organic layers comprising a light-emitting layer disposed between them are described in which the light-emitting layer or ≥1 of the organic layers comprising the light-emitting layer comprises ≥1 compound represented by the general formula I (Ar11, Ar12, Ar13, Ar14 and Ar15 = independently selected aryl or heteroaryl groups; Ar = a benzene ring, a naphthalene ring, a phenanthrene ring or an anthracene ring; ≥1 of Ar, Ar11, Ar12, Ar13, Ar14 and Ar15 is a condensed aryl group, a condensed or uncondensed heteroaryl group or a group comprising a condensed aryl group or a condensed or uncondensed heteroaryl group; Ar11, Ar12, Ar13, Ar14 and Ar15 are not bonded to each other to form a ring; R11 = a substituent; and n11 = an integer ≥0). Selected aromatic compds. corresponding to I are claimed.

IT 489429-57-4P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-emitting devices using aromatic compds. and aromatic compds.)

RN 489429-57-4 HCAPLUS

CN Anthracene, 9,10-bis(4',5',6'-triphenyl[1,1':2',1''-terphenyl]-3'-yl)- (9CI) (CA INDEX NAME)

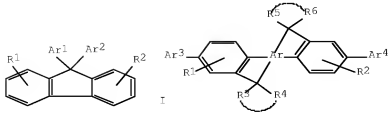


IC ICM H05B
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 25
IT 489429-55-2P 489429-56-3P 489429-57-4P
489429-58-5P 489429-59-6P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(light-emitting devices using aromatic compds. and aromatic compds.)
OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:716895 HCAPLUS Full-text
DOCUMENT NUMBER: 137:255075
TITLE: Electroluminescent (EL) devices
INVENTOR(S): Hu, Nan-Xing; Aziz, Hany; Jain, Poonam; Popovic, Zoran D.
PATENT ASSIGNEE(S): Xerox Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 46 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020132134	A1	20020919	US 2001-771311	2001 0126
			<--	
US 6479172	B2	20021112		
US 20030044646	A1	20030306	US 2002-232558	2002 0829
			<--	
US 6562485	B2	20030513		
PRIORITY APPLN. INFO.:			US 2001-771311 A3	2001 0126
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 137:255075
ED Entered STN: 20 Sep 2002
GI



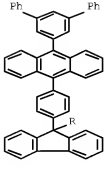
AB Electroluminescent devices are described which employ compds. are described by the general formula I and II (R1 and R2 = H, alkyl, alicyclic alkyl, alkoxy, halo, and cyano groups, and, in II, aryl groups; Ar1 and Ar2 = independently selected aromatic component or an aryl group comprised of 4-15 conjugate-bonded or fused benzene rings; R3, R4, R5, and R6 = independently selected H, an alkyl, alicyclic alkyl, aryl, and alkoxy group; wherein R3 and R4, or R4 and R5 are optionally combined into a bivalent hydrocarbon group selected from the group consisting of an alkylene, an alkylidene, an alicyclic alkylidene, and an arylalkylidene; Ar3 and Ar4 = independently selected aryl groups; and Ar = a tetravalent aromatic group). The compds. and their mixts. are also described.

IT 460347-65-3 460347-66-4
460347-67-5
RL: DEV (Device component use); USES (Uses)
(electroluminescent devices employing fluorene derivs. and aryl derivs.)

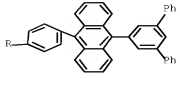
RN 460347-65-3 HCAPLUS

CN Anthracene, 9,9'-(9H-fluoren-9-ylidenedi-4,1-phenylene)bis[10-[1,1':3',1''-terphenyl]-5'-yl- (9CI) (CA INDEX NAME)

PAGE 1-A

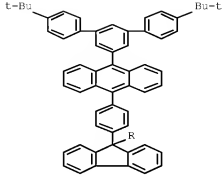


PAGE 2-A

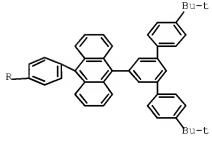


RN 460347-66-4 HCAPLUS
CN Anthracene, 9,9'-(9H-fluoren-9-ylidenedi-4,1-phenylene)bis[10-[4,4''-bis(1,1-dimethylethyl)[1,1':3',1''-terphenyl]-5'-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

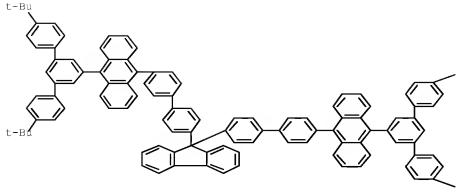


PAGE 2-A



RN 460347-67-5 HCAPLUS
CN Anthracene, 9,9'-[9H-fluoren-9-ylidenebis([1,1'-biphenyl]-4',4-diyl)]bis[10-[4,4''-bis(1,1-dimethylethyl)[1,1':3',1''-terphenyl]-5'-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

IC ICM H05B033-14
INCL 428690000
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 25, 76
IT 12798-95-7 31274-51-8 37271-44-6 50926-11-9, Indium tin oxide 123847-85-8 266349-83-1 266349-84-2 266349-85-3
266349-86-4 460347-60-8 460347-62-0 460347-65-3
460347-66-4 460347-67-5 460347-68-6
460347-69-7 460347-70-0 460347-71-1 460347-72-2
460347-73-3 460347-74-4 460347-75-5 460347-76-6
460347-77-7 460347-78-8 460347-79-9 460347-80-2
460347-81-3 460347-82-4 460347-83-5 460347-84-6
460347-85-7 460347-86-8 460347-87-9 460347-88-0
460347-89-1 460347-90-4 460347-91-5 460347-92-6
460347-99-3 460348-13-4 460348-19-0
RL: DEV (Device component use); USES (Uses)
(electroluminescent devices employing fluorene derivs. and aryl derivs.)
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L30 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:730670 HCAPLUS Full-text
DOCUMENT NUMBER: 135:280171
TITLE: Anthracene derivatives and organic electroluminescent devices made by using the same
INVENTOR(S): Hosokawa, Chishio; Ikeda, Hidetsugu; Funahashi, Masakazu
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072673	A1	20011004	WO 2001-JP2330	2001 0323
			<--	
W: CN, IN, JP, KR				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1182183	A1	20020227	EP 2001-915727	2001 0323
			<--	
EP 1182183	B1	20091209		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
CN 1226250	C	20051109	CN 2001-800733	2001 0323
			<--	
CN 1754877	A	20060405	CN 2005-10106888	2001 0323
			<--	
AT 451344	T	20091215	AT 2001-915727	2001 0323
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US 20020048687	A1	20020425	US 2001-818846	2001 0328
			<--	
TW 574342	B	20040201	TW 2001-90107379	2001 0328
			<--	
KR 843819	B1	20080703	KR 2001-714307	2001 1109
			<--	
IN 2001CN01650	A	20070907	IN 2001-CN1650	2001 1126
			<--	
US 20040100188	A1	20040527	US 2003-610930	2003 0702
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US 6797848	B2	20040928		

PRIORITY APPLN. INFO.: JP 2000-90644 A 2000

0329

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JP 2000-319297 A

2000

1019

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CN 2001-800733 A3

2001

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WO 2001-JP2330 W

2001

0323

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US 2001-818846 B1

2001

0328

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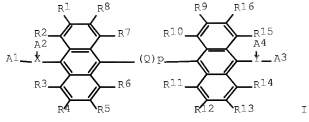
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 135:280171

ED Entered STN: 07 Oct 2001

GI



I

AB Anthracene derivs. (I); and organic electroluminescent(EL) devices each having at least an organic light-emitting layer sandwiched between a pair of electrodes and containing the derivs. [wherein X and Y are each a trivalent group derived from an aromatic ring; (1) A1 to A4 are each aryl or a monovalent heterocyclic group or (2) A1 and A3 are each H, and A2 and A4 are each styryl whose Ph moiety may be substituted and which may be substituted by C1-30 alkyl at the α- or β-position; R1 to R16 are each H, halo, cyano, nitro, alkyl, or the like; Q is arylene or the like; and p is 0, 1, or 2]. The anthracene derivs. exhibit high light emitting efficiency and heat resistance, when used as the light-emitting constituent of organic EL devices.

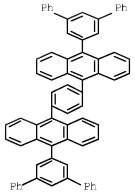
IT 363609-66-9

RL: DEV (Device component use); USES (Uses)

(anthracene derivs. and organic electroluminescent devices made by using the same)

RN 363609-66-9 HCAPLUS

CN Anthracene, 9,9'-(1,4-phenylene)bis[10-[1,1':3',1''-terphenyl]-5'-yl- (9CI) (CA INDEX NAME)



IC ICM C07C015-27
ICS C07C013-547; C07C013-19; C07C255-51; C07C015-60; C07C013-45; C07D215-06; C07D285-12; C07D207-32; C07D241-42; C07D333-68; C07D209-86; C07D213-06; C07D223-28; C07D223-26; C07D249-02; C09K011-06; H05B033-14; H05B033-22
CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 25
IT 120-12-7, Anthracene, uses 2085-33-8, Tris(8-quinolinolato)aluminum 7429-90-5, Aluminum, uses 50926-11-9, ITO 65181-78-4, TPD 123847-85-8, α-NPD 231606-50-1 363609-60-3 363609-61-4 363609-62-5 363609-63-6 363609-64-7 363609-65-8 363609-66-9 363609-67-0 363609-68-1 363609-69-2 363609-70-5 363609-71-6 363609-72-7
RL: DEV (Device component use); USES (Uses)
(anthracene derivs. and organic electroluminescent devices made by using the same)
OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:694280 HCAPLUS Full-text
DOCUMENT NUMBER: 133:259476
TITLE: Amino or styryl compound, organic thin film, and electroluminescent device
INVENTOR(S): Hosokawa, Chishio; Funahashi, Masakazu; Azuma, Hisahiro; Ikeda, Shuji; Arai, Hiromasa
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000273056	A	20001003	JP 1999-352216	1999 1210
			<--	
PRIORITY APPLN. INFO.:			JP 1999-10660	A 1999

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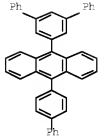
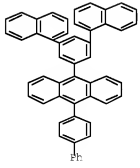
OTHER SOURCE(S): MARPAT 133:259476
ED Entered STN: 03 Oct 2000
AB The compound comprises D1Ar1X1(X2)n (I; Ar1 = C6-30 di- or trivalent aromatic group; X1, X2 = styryl, styrylaryl, diarylamino, diarylaminoaryl; n = 0, 1; if X1 or X2 = the styryl group, then D1 = C16-60 aromatic group having ≥4 carbon rings; if X1 and X2 = the amino group, then D1 = C20-60 aromatic group having ≥5 carbon rings). I shows good heat resistance (glass transition temperature ≥90°) and long luminescence lifetime.
IT 294881-41-7 294881-42-8
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(amino or styryl compound for heat-resistant organic thin film or electroluminescent device)
RN 294881-41-7 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-4-yl-10-[1,1':3',1''-terphenyl]-5'-yl- (9CI) (CA INDEX NAME)



RN 294881-42-8 HCAPLUS
CN Anthracene, 9-[1,1'-biphenyl]-4-yl-10-(3,5-di-1-naphthalenylphenyl)- (CA INDEX NAME)

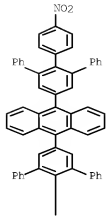


IC ICM C07C015-60
ICS C07C211-54; C07C211-57; C07D209-86; C07D223-24; C09K011-06; H05B033-14; H05B033-22
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 25, 73
IT 279672-13-8 294881-28-0 294881-29-1 294881-30-4
294881-31-5 294881-32-6 294881-33-7 294881-34-8
294881-35-9 294881-36-0 294881-37-1 294881-38-2
294881-39-3 294881-40-6 294881-41-7

294881-42-8 294881-43-9 294881-44-0D, fluorene derivs.
294881-45-1
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(amino or styryl compound for heat-resistant organic thin film or electroluminescent device)
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L30 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:496137 HCAPLUS Full-text
DOCUMENT NUMBER: 133:252816
TITLE: Synthesis and characterization of soluble, photoluminescent polyamides, polyesters and polyethers containing 9,10-di(4-biphenylyl)anthracene segments in the main chain
AUTHOR(S): Mikroyannidis, J. A.
CORPORATE SOURCE: Chemical Technology Laboratory, Department of Chemistry, University of Patras, Patras, GR-26500, Greece
SOURCE: Polymer (2000), 41(23), 8193-8204
CODEN: POLMAG; ISSN: 0032-3861
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 23 Jul 2000
AB New rigid polyamides and polyesters as well as semiflexible polyethers containing substituted 9,10-di(4-biphenylyl)anthracene segments in the main chain were synthesized through pyrylium salts. They were characterized by viscosimetry, FT-IR, NMR, X-ray, DSC, thermomech. anal., UV-visible, and luminescence spectroscopy. All polymers were practically amorphous and showed an enhanced solubility The polyamides with a very high hydrophilicity dissolved in polar aprotic solvents, strong acids and pyridine. The polyesters and polyethers were soluble in all tested solvents and even in chloroform and THF. The polyamides had higher Tgs (165-220°C) than the polyesters (100-106°C) and polyethers (98-105°C). The polymers having biphenylyl pendent groups showed lower Tgs and higher thermal stability than their counterparts with Ph pendent groups. All the polymers displayed violet to blue photoluminescence in solution and in the solid state with maxima at 366-422 and 435-463 nm, resp. The polymers carrying biphenylyl pendent groups exhibited in solution more broad emission spectra and higher quantum yields than the corresponding polymers with Ph pendent groups.
IT 294882-40-9P 294882-41-0P
294882-42-1P 294882-43-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer intermediate; preparation of photoluminescent polymers containing dibiphenylylanthracene units)
RN 294882-40-9 HCAPLUS
CN Anthracene, 9,10-bis(4-nitro-6'-phenyl[1,1':2',1''-terphenyl]-4'-yl)- (9CI) (CA INDEX NAME)

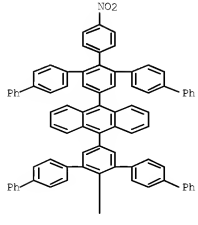
PAGE 1-A



PAGE 2-A

RN 294882-41-0 HCAPLUS
CN Anthracene, 9,10-bis[2''-(4-nitrophenyl)[1,1':4',1'':3'',1''':4''',1''''-quinquephenyl]-5''-yl]- (9CI) (CA INDEX NAME)

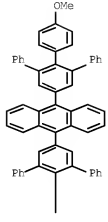
PAGE 1-A



PAGE 2-A

RN 294882-42-1 HCAPLUS
CN Anthracene, 9,10-bis(4-methoxy-6'-phenyl[1,1':2',1''-terphenyl]-4'-yl)- (9CI) (CA INDEX NAME)

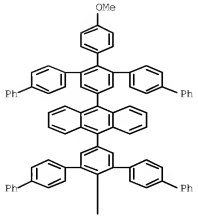
PAGE 1-A



PAGE 2-A

RN 294882-43-2 HCAPLUS
CN Anthracene, 9,10-bis[2''-(4-methoxyphenyl)[1,1':4',1''':3'',1''':4''',1''''-quinquephenyl]-5''-yl]- (9CI) (CA INDEX NAME)

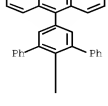
PAGE 1-A



PAGE 2-A

IT 294882-44-3P 294882-45-4P
294882-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer; preparation of photoluminescent polymers containing dibiphenylylanthracene units)
RN 294882-44-3 HCAPLUS
CN [1,1':2',1''-Terphenyl]-4-amine, 4',4'''-(9,10-anthracenediyl)bis[6'-phenyl- (9CI) (CA INDEX NAME)

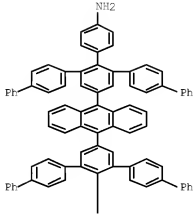
PAGE 1-A



PAGE 2-A

RN 294882-45-4 HCAPLUS
CN [1,1':2',1'':4'',1'''-Quaterphenyl]-4-amine,
4',4''''-(9,10-anthracenediyl)bis[6'-[1,1'-biphenyl]-4-yl- (9CI)
(CA INDEX NAME)

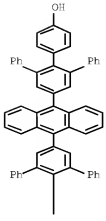
PAGE 1-A



PAGE 2-A

RN 294882-46-5 HCAPLUS
CN [1,1':2',1''-Terphenyl]-4-ol,
4',4''''-(9,10-anthracenediyl)bis[6'-phenyl- (9CI) (CA INDEX
NAME)

PAGE 1-A



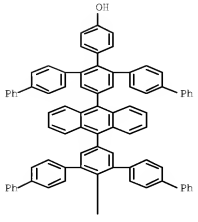
PAGE 2-A

IT 294882-47-6P 294882-48-7P
294882-50-1P 294882-52-3P
294882-54-5P 294882-55-6P
294882-56-7P 294882-57-8P
294882-59-0P 294882-60-3P
294882-61-4P 294882-62-5P
294882-64-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of photoluminescent polymers containing dibiphenylylanthracene units)

RN 294882-47-6 HCAPLUS

CN [1,1':2',1'':4'',1'''-Quaterphenyl]-4-ol, 4',4''''-(9,10-anthracenediyl)bis[6'-[1,1'-biphenyl]-4-yl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

RN 294882-48-7 HCAPLUS
CN Poly[iminocarbonyl-1,4-phenylenecarbonylimino(6'-phenyl[1,1':2',1''-terphenyl]-4,4'-diyl)-9,10-anthracenediyl(6'-phenyl[1,1':2',1''-terphenyl]-4',4-diyl)] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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RN 294882-50-1 HCAPLUS
CN 1,4-Benzenedicarbonyl dichloride, polymer with 4',4''''-(9,10-anthracenediyl)bis[6'-phenyl[1,1':2',1''-terphenyl]-4-amine] (9CI) (CA INDEX NAME)

CM 1

CRN 294882-44-3
CMF C62 H44 N2

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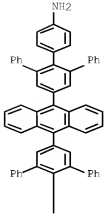
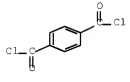


PAGE 2-A

CM 2

CRN 100-20-9
CMF C8 H4 Cl2 O2



RN 294882-52-3 HCAPLUS
CN Poly[iminocarbonyl-1,4-phenylenecarbonylimino[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4,4'-diyl]-9,10-anthracenediyl[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4',4-diyl]] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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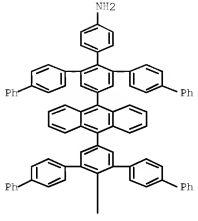
RN 294882-54-5 HCAPLUS
CN 1,4-Benzenedicarbonyl dichloride, polymer with 4',4''''-(9,10-anthracenediyl)bis[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4-amine] (9CI) (CA INDEX NAME)

CM 1

CRN 294882-45-4
CMF C86 H60 N2

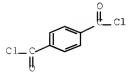
PAGE 1-A



PAGE 2-A

CM 2

CRN 100-20-9
CMF C8 H4 Cl2 O2



RN 294882-55-6 HCAPLUS
CN Poly[oxycarbonyl-1,4-phenylenecarbonyloxy(6'-phenyl[1,1':2',1''-terphenyl]-4,4'-diyl)-9,10-anthracenediyl(6'-phenyl[1,1':2',1''-terphenyl]-4',4-diyl)] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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RN 294882-56-7 HCAPLUS
CN 1,4-Benzenedicarbonyl dichloride, polymer with 4',4''''-(9,10-anthracenediyl)bis[6'-phenyl[1,1':2',1''-terphenyl]-4-ol] (9CI) (CA INDEX NAME)

CM 1

CRN 294882-46-5
CMF C62 H42 O2

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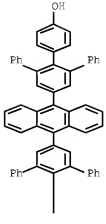
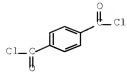


PAGE 2-A

CM 2

CRN 100-20-9
CMF C8 H4 Cl2 O2



RN 294882-57-8 HCAPLUS
CN Poly[oxycarbonyl-1,4-phenylenecarbonyloxy[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4,4'-diyl]-9,10-anthracenediyl[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4',4-diyl]] (9Cl) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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RN 294882-59-0 HCAPLUS
CN 1,4-Benzenedicarbonyl dichloride, polymer with 4',4'''''-(9,10-anthracenediyl)bis[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4-ol] (9Cl) (CA INDEX NAME)

CM 1

CRN 294882-47-6
CMF C86 H58 O2

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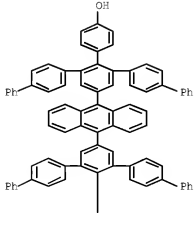
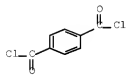


CM 2

CRN 100-20-9
CMF C8 H4 Cl2 O2



RN 294882-60-3 HCAPLUS
CN Poly[oxy-1,10-decanediyloxy(6'-phenyl[1,1':2',1''-terphenyl]-4,4'-diyl)-9,10-anthracenediyl(6'-phenyl[1,1':2',1''-terphenyl]-4',4-diyl)] (9Cl) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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RN 294882-61-4 HCAPLUS
CN [1,1':2',1''-Terphenyl]-4-ol,
4',4''''-(9,10-anthracenediyl)bis[6'-phenyl-, polymer with
1,10-dibromodecane (9CI) (CA INDEX NAME)

CM 1

CRN 294882-46-5
CMF C62 H42 O2

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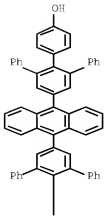

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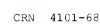
CM 2

CRN 4101-68-2
CMF C10 H20 Br2



RN 294882-62-5 HCAPLUS
CN Poly[oxy-1,10-decanediyloxy[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4,4'-diyl]-9,10-anthracenediyl[6'-[1,1'-biphenyl]-4-yl[1,1':2',1'':4'',1'''-quaterphenyl]-4',4-diyl]] (9CI) (CA INDEX NAME)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
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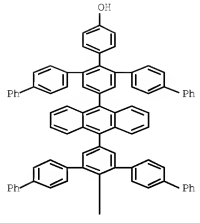
RN 294882-64-7 HCAPLUS
CN [1,1':2',1'':4'',1'''-Quaterphenyl]-4-ol, 4':4''''-(9,10-anthracenediyl)bis[6'-[1,1'-biphenyl]-4-yl-, polymer with 1,10-dibromodecane (9CI) (CA INDEX NAME)

CM 1

CRN 294882-47-6
CMF C86 H58 O2

PAGE 1-A



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CM 2

CRN 4101-68-2
CMF C10 H20 Br2

Br—(CH2)10—Br

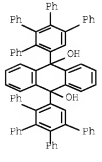
CC 35-5 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 25, 73
IT 294882-37-4P 294882-39-6P 294882-40-9P
294882-41-0P 294882-42-1P
294882-43-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(monomer intermediate; preparation of photoluminescent polymers
containing dibiphenylylanthracene units)
IT 294882-44-3P 294882-45-4P
294882-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)

(monomer; preparation of photoluminescent polymers containing dibiphenylylanthracene units)

IT 294882-47-6P 294882-48-7P
294882-50-1P 294882-52-3P
294882-54-5P 294882-55-6P
294882-56-7P 294882-57-8P
294882-59-0P 294882-60-3P
294882-61-4P 294882-62-5P
294882-64-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of photoluminescent polymers containing dibiphenylylanthracene units)

OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1969:461049 HCAPLUS Full-text
DOCUMENT NUMBER: 71:61049
ORIGINAL REFERENCE NO.: 71:11219a,11222a
TITLE: Cyclopentadienones. XV. 1-Hydroxyalkyl substituted aromatics from cyclones, alkynols, and alkynediols
AUTHOR(S): Reid, Walter; Ritz, Michael
CORPORATE SOURCE: Univ. Frankfurt/M., Frankfurt/M., Fed. Rep. Ger.
SOURCE: Justus Liebigs Annalen der Chemie (1969), 724, 122-7
CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: German
ED Entered STN: 12 May 1984
AB Cyclopentadienones reacted with alkynols and alkynediols to give (1-hydroxyalkyl) and o-bis(1-hydroxyalkyl) derivs. of C6H6. 9,10-Diethynyl-9,10-dihydro-9,10-anthracenediol reacted with tetracyclone to give 9-ethynyl-9,10-dihydro-10-(2,3,4,5-tetraphenylphenyl)-9,10-anthracenediol which upon further reaction with tetracyclone gave 9,10-bis(2,3,4,5-tetraphenylphenyl-9,10- dihydro)-9,10-anthracenediol.
IT 23421-47-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 23421-47-8 HCAPLUS
CN 9,10-Anthracenediol, 9,10-bis(2',6'-diphenyl-m-terphenyl-4'-yl)-9,10-dihydro- (8CI) (CA INDEX NAME)



CC 26 (Condensed Aromatic Compounds)
IT 23347-04-8P 23347-05-9P 23347-06-0P 23347-07-1P

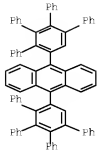
23347-08-2P 23347-09-3P 23347-10-6P 23347-11-7P
23353-84-6P 23353-85-7P 23353-86-8P 23353-87-9P
23353-88-0P 23421-47-8P 23421-48-9P 23421-49-0P
23421-50-3P 23421-51-4P 23421-52-5P 23421-53-6P
23421-54-7P 23422-08-4P 23422-09-5P 23422-10-8P
23532-19-6P 23532-20-9P 23532-21-0P 23532-22-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L30 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1960:128729 HCAPLUS Full-text
DOCUMENT NUMBER: 54:128729
ORIGINAL REFERENCE NO.: 54:24600h-i,24601a-d
TITLE: Diene syntheses with diynes
AUTHOR(S): Ried, Walter; Bonnighausen, Karl Heinz
CORPORATE SOURCE: Univ. Frankfurt, Germany
SOURCE: Chemische Berichte (1960), 93, 1769-73
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
ED Entered STN: 22 Apr 2001
AB Polysubstituted derivs. of tolan, terphenyl, and quinquephenyl were prepared in good yields by diene syntheses. The appropriate cyclopentadienone (I) and the diyne derivative (equivalent amts.) heated to a gentle gas evolution during 20-30 min., cooled, boiled with Ac2O, and filtered gave the desired adduct; method A. I (2 moles) and 1 mole diethynyl derivative in β-decalol (about 3-4 cc./g. I) heated slowly to boiling, diluted with EtOAc, EtOH, or C6H6, and filtered gave the adduct; method B. The appropriate I (2 moles) suspended in β-decalol (about 3-4 cc./g. I), heated to gentle boiling, treated during 0.5 hr. with 1 mole diethynyl derivative in portions, the mixture refluxed 20 min., and worked up in the usual manner gave the adduct; method C. By these methods were prepared the following compds. (m.p., color, % yield, starting materials, and method given): 2,3,6-triphenyl-4,5-biphenylenetolan (II), 270-1° (HCO-NMe2, PhNO2, C5H5N), colorless, 60, (PhC.tplbond.C)2 (III), 2,5-diphenyl-3,4-biphenylenecyclopentadienone (IV), A; 2-methyl-3,4,5,6-tetraphenyltolan (V), 291-2° (C5H5N, PhMe), colorless, 42.8, III, 2-methyl-3,4,5-triphenylcyclopentadienone, A; 2',3',6',2''',3''',6'''-hexaphenylquinquephenyl, 408-9° (AcPh, PhNO2), colorless, 94, tetraphenylcyclopentadienone (VI), p-C6H4(C.tplbond.CH)2 (VII), B; 2,5,3'',6''-tetraphenyl-3,4,4'',5''-bis(biphenylene)terphenyl, 408-10° (PhNO2), colorless, 75.5, IV, VII, B; 3',6'''-dimethyl-2',6',3''',5'''-tetraphenylquinquephenyl, 310-12° (PhNO2), pale yellow, 62, V, VII, B; 2',3',6',3''',5''',6'''hexaphenyl-3''',6'''-benzoquinquephenyl, 366-8° (PhNO2), colorless, 65, VI, 1,4-C10H6(C.tplbond.CH)2, III; 2',3',6',3''',5''',6'''-hexaphenyl-2''',3''',5''',6'''- dibenzoquenquephenyl, 399-401° (PhNO2), brownish yellow (blue-violet fluorescence in PhMe, PhOMe, dioxane, and EtOAc), 49.8, VI, 9,10-diethynylanthracene, III, C; 2',3',5',6',2''',3''',5''',6'''octaphenylquinquephenyl (VII), 462-3° (PhNO2), colorless, 69.4, VI, p-C6H4(C.tplbond.CPh)2, A; 2''',3'',5'',6''-tetra-Cl derivative of VII, above 470° with sintering from 450° (p-MeC6H4Br), light brown, 18, VI, 2,3,5,6-Cl6C6(C.tplbond.CPh)2, B; 6-(2,3,6-triphenyl-p-biphenylyl)-2',3',5'-triphenyl-3,4-dimethylterphenyl, 378-9° (PhOMe, C5H5N), colorless, 97.8, VI, 1,2,4,5-(HC.tplbond.C)2C6H2Me2, B; 6-(2,3,6-triphenyl-p-biphenylyl)-2',3',5'-triphenyl-2,3;4,5-dibenzoterphenyl, 295-6° (resolidifying and rem. 319-20°) (PhMe), colorless, 97.8, VI, 9,10-diethynylphenanthrene, B; 3-(2,3,6-triphenyl-p-biphenylyl)-4-hydroxy-3',5',6'- triphenylterphenyl (VIII), 393-6° (PhNO2), pale orange, 44.3, VI, 2,4-(HC.tplbond.C)2C6H3OH, B. The infrared absorption spectra of II, VII, VIII were recorded.

IT 103511-51-9P, Anthracene, 9,10-bis(2,3,4,5-tetraphenylphenyl)-
RL: PREP (Preparation)
(preparation of)

RN 103511-51-9 HCAPLUS

CN Anthracene, 9,10-bis(5,6-diphenyl[1,1':2',1''-terphenyl]-3'-yl)- (9CI) (CA INDEX NAME)



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CC   10F (Organic Chemistry: Condensed Carbocyclic Compounds)
IT   3364-01-0P, p-Quinquephenyl,
     2',2''',3',3''',5',5''',6',6'''-octaphenyl-   103511-40-6P,
     Naphthalene, 1,4-bis(2,3,4,5-tetraphenylphenyl)-
     103511-51-9P, Anthracene,
     9,10-bis(2,3,4,5-tetraphenylphenyl)-   103511-52-0P, Phenanthrene,
     9,10-bis(2,3,4,5-tetraphenylphenyl)-   103650-90-4P, Phenol,
     2,4-bis(2,3,4,5-tetraphenylphenyl)-   108750-92-1P,
     p-Quinquephenyl, 2''',3'-dimethyl-2',3''',5''',6'-tetraphenyl-
     108760-18-5P, p-Quinquephenyl,
     2'',3'',5'',6''-tetrachloro-2',2''',3',3''',5',5''',6',6'''-
     octaphenyl-   108800-39-1P,
     1,1':4',1'':2'',1''':2''',1''''-Quinquephenyl,
     4'',5''-dimethyl-2',3',3''',4''',5''',6'-hexaphenyl-
     108800-45-9P, p-Quinquephenyl, 2',2''',3',3''',5''',6'-hexaphenyl-
     119597-23-8P, Acetylene, phenyl(3,4,5,6-tetraphenyl-o-tolyl)-
     120830-70-8P, Benzene, p-bis(1,4-diphenyl-2-triphenylenyl)-
     121973-79-3P, Triphenylene, 1,2,4-triphenyl-3-phenylethynyl-
     RL: PREP (Preparation)
        (preparation of)
OS.CITING REF COUNT:     5      THERE ARE 5 CAPLUS RECORDS THAT CITE
                                THIS RECORD (5 CITINGS)
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FULL SEARCH HISTORY

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                D ALL
                SEL RN

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                -5/BI OR 164724-35-0/BI OR 18937-92-3/BI OR 204530-94-9
                /BI OR 2052-07-5/BI OR 2085-33-8/BI OR 209980-53-0/BI
                OR 22082-97-9/BI OR 3282-24-4/BI OR 377737-89-8/BI OR
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L4             3 SEA SSS SAM L3
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L5              STR L3

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L6            15 SEA SSS SAM L5
L7          2252 SEA SSS FUL L5
L8            21 SEA SPE=ON  ABB=ON  PLU=ON  L2 AND L7
L9            25 SEA SPE=ON  ABB=ON  PLU=ON  L2 NOT L8
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                D QUE L3
L10             STR L5

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                SAV TEMP L12 GAR586REGA/A
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                 D QUE STAT

     FILE 'LREGISTRY' ENTERED AT 14:12:01 ON 13 JAN 2010
L15             STR L13

     FILE 'REGISTRY' ENTERED AT 14:12:52 ON 13 JAN 2010
L16            7 SEA SUB=L7 SSS SAM L15
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L17          131 SEA SUB=L7 SSS FUL L15
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L18           10 SEA SPE=ON  ABB=ON  PLU=ON  L2 AND L12
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L24          169 SEA SPE=ON  ABB=ON  PLU=ON  L12 OR L17 OR L22
L25           13 SEA SPE=ON  ABB=ON  PLU=ON  L2 AND L24
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L29              QUE SPE=ON  ABB=ON  PLU=ON  (PY=<2004 OR PRY=<2004 OR
                 AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
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     FILE 'STNGUIDE' ENTERED AT 14:24:03 ON 13 JAN 2010

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